

Title (en)
SUGAR CHAIN-RELATED GENE AND USE THEREOF

Title (de)
MIT ZUCKERKETTE ASSOZIIERTES GEN UND VERWENDUNG DAVON

Title (fr)
GÈNE APPARENTÉ À UNE CHAÎNE DE SUCRE ET SON UTILISATION

Publication
EP 3360556 B1 20200408 (EN)

Application
EP 18151424 A 20081226

Priority

- JP 2007336518 A 20071227
- EP 15194114 A 20081226
- EP 08866254 A 20081226
- JP 2008004025 W 20081226

Abstract (en)
[origin: EP2238987A1] As a result of dedicated studies, the present inventors succeeded in discovering, for the first time, that fibrogenesis could be suppressed at the physiological tissue level by inhibiting sulfation at position 4 or 6 of GalNAcc, which is a sugar that constitutes sugar chains. Furthermore, the present inventors conducted studies using various disease model animals, and as a result, successfully demonstrated that inhibitors of sulfation at position 4 or 6 of GalNAc had therapeutic effects on diseases caused by tissue fibrogenesis (tissue fibrogenic disorders).

IPC 8 full level
A61K 31/7105 (2006.01); **C12N 9/10** (2006.01); **C12N 15/113** (2010.01); **C12Q 1/48** (2006.01)

CPC (source: EP KR US)
A61K 31/7105 (2013.01 - EP KR US); **A61K 38/43** (2013.01 - KR); **A61P 1/00** (2017.12 - EP); **A61P 1/04** (2017.12 - EP); **A61P 1/16** (2017.12 - EP); **A61P 1/18** (2017.12 - EP); **A61P 3/00** (2017.12 - EP); **A61P 3/10** (2017.12 - EP); **A61P 7/00** (2017.12 - EP); **A61P 7/02** (2017.12 - EP); **A61P 9/00** (2017.12 - EP); **A61P 9/04** (2017.12 - EP); **A61P 9/06** (2017.12 - EP); **A61P 9/10** (2017.12 - EP); **A61P 11/00** (2017.12 - EP); **A61P 13/08** (2017.12 - EP); **A61P 13/10** (2017.12 - EP); **A61P 13/12** (2017.12 - EP); **A61P 15/10** (2017.12 - EP); **A61P 17/00** (2017.12 - EP); **A61P 19/02** (2017.12 - EP); **A61P 19/04** (2017.12 - EP); **A61P 21/00** (2017.12 - EP); **A61P 21/04** (2017.12 - EP); **A61P 25/00** (2017.12 - EP); **A61P 25/02** (2017.12 - EP); **A61P 25/16** (2017.12 - EP); **A61P 25/18** (2017.12 - EP); **A61P 25/28** (2017.12 - EP); **A61P 27/02** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 31/14** (2017.12 - EP); **A61P 31/20** (2017.12 - EP); **A61P 37/02** (2017.12 - EP); **A61P 37/08** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C12N 9/13** (2013.01 - EP KR US); **C12N 15/1137** (2013.01 - EP KR US); **C12Q 1/48** (2013.01 - EP KR US); **C12Q 1/485** (2013.01 - EP KR US); **G01N 33/5023** (2013.01 - KR US); **C12N 2310/14** (2013.01 - EP KR US); **G01N 2333/91194** (2013.01 - EP KR US); **Y10T 436/143333** (2015.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2238987 A1 20101013; **EP 2238987 A4 20111102**; CN 101965196 A 20110202; CN 103656644 A 20140326; EP 3045178 A1 20160720; EP 3360556 A1 20180815; EP 3360556 B1 20200408; EP 3673910 A1 20200701; EP 3673910 B1 20231122; JP 2011037847 A 20110224; JP 2011162558 A 20110825; JP 4585611 B2 20101124; JP 4751956 B2 20110817; JP 5481426 B2 20140423; JP WO2009084232 A1 20110519; KR 101926292 B1 20181206; KR 102244872 B1 20210427; KR 20100111282 A 20101014; KR 20160007671 A 20160120; KR 20160103554 A 20160901; KR 20170100064 A 20170901; KR 20180132162 A 20181211; KR 20190143485 A 20191230; SG 10201402793P A 20141030; SG 10202001748V A 20200429; US 2011027248 A1 20110203; US 2014128452 A1 20140508; US 2015290238 A1 20151015; US 2017067058 A1 20170309; US 2019330637 A1 20191031; US 2022340910 A1 20221027; WO 2009084232 A1 20090709

DOCDB simple family (application)
EP 08866254 A 20081226; CN 200880127570 A 20081226; CN 201310495268 A 20081226; EP 15194114 A 20081226; EP 18151424 A 20081226; EP 20151386 A 20081226; JP 2008004025 W 20081226; JP 2009547912 A 20081226; JP 2010173610 A 20100802; JP 2011110047 A 20110517; KR 20107016694 A 20081226; KR 20157037089 A 20081226; KR 20167022756 A 20081226; KR 20177023558 A 20081226; KR 20187034630 A 20081226; KR 20197037818 A 20081226; SG 10201402793P A 20081226; SG 10202001748V A 20081226; US 201314075919 A 20131108; US 201514704333 A 20150505; US 201615216231 A 20160721; US 201916237875 A 20190102; US 202217805290 A 20220603; US 80996908 A 20081226